

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) Breaking detector for a shear pin having a central bore, comprising:
 - an electrically conductive element forming an elongated loop extending on a length of the bore of the shear pin and having upper ends defining contact surfaces adjacent each other;
 - an electrically insulating element extending in the loop;
 - power supply cables connected respectively to the contact surfaces and provided with connectors; and
 - an electrically insulating means for removably supporting the elements of the detector in the bore of the shear pin; and
 - an identification circuit including a light indicator connected between the contact surfaces, the light indicator projecting at an upper end of the means for supporting.
2. (Cancelled)
3. (Currently amended) The detector according to claim 1 [[2]], wherein the identification circuit comprises a resistor in series with an electroluminescent diode.
4. (Original) The detector according to claim 3, wherein the means for supporting comprises a tube insertable in the bore of the shear pin, and a cap mountable at an upper end of the tube, the elements of the detector extending in the tube, and the cap having a top opening for passage of the power supply cables.
5. (Original) The detector according to claim 4, wherein the electroluminescent diode projects on top of the cap.
6. (Original) The detector according to claim 5, wherein the tube is made of plastic material.

7. (Original) The detector according to claim 5, wherein the conductive element and the insulating element are formed by a printed circuit disposed in the tube, the printed circuit having a conductive strip on each side of a central insulating strip in order to form the elongated loop.
8. (Original) The detector according to claim 7, comprising an insulating material injected in the tube, consolidating the printed circuit and the tube together.
9. (Original) The detector according to claim 8, wherein the connectors of the power supply cables comprise respectively complementary male and female connectors.
10. (Original) The detector according to claim 7, wherein the conductive strip has upper ends forming connection terminals on each side of the insulating strip, the connection terminals providing the contact surfaces at the ends of the conductive element.
11. (Original) The detector according to claim 1, wherein the means for supporting comprises a tube insertable in the bore of the shear pin, the elements of the detector extending in the tube.
12. (Original) The detector according to claim 11, wherein the tube is made of plastic material.
13. (Original) The detector according to claim 11, comprising an insulating material injected in the tube.
14. (Original) The detector according to claim 1, wherein the conductive element and the insulating element are formed by a printed circuit having a conductive strip on each side of a central insulating strip in order to form the elongated loop.
15. (Original) The detector according to claim 14, wherein the conductive strip is made of copper.

16. (Original) The detector according to claim 14, wherein the conductive strip has upper ends forming connection terminals on each side of the insulating strip, the connection terminals providing the contact surfaces at the ends of the conductive element.

17. (Original) The detector according to claim 1, wherein the connectors of the power supply cables comprise respectively complementary male and female connectors.

18. (Currently amended) A system for detecting breaking of shear pins that include having respective central bores, comprising:

a number of detectors according to claim 1, wherein the detectors include:

an electrically conductive element forming an elongated loop extending on a length of the bore of the shear pin and having upper ends defining contact surfaces adjacent each other;

an electrically insulating element extending in the loop;

power supply cables connected respectively to the contact surfaces and provided with connectors; and

an electrically insulating means for removably supporting the elements of the detector in the bore of the shear pin, and

an identification circuit including a light indicator connected between the contact surfaces, the light indicator projecting at an upper end of the means for supporting, wherein the detectors are connected in series with one another by their connectors, the detectors being respectively inserted in the bores of the shear pins;

a power supply source connected in series with the detectors; and

a warning element connected between the source and the detectors, responsive to a breakage of the conductive element of one of the detectors caused by a breaking of a corresponding one of the shear pins.

19. (Cancelled)

20. (New) Breaking detector for a shear pin having a central bore, comprising:

an electrically conductive element forming an elongated loop extending on a length of the bore of the shear pin and having upper ends defining contact surfaces adjacent each other;

an electrically insulating element extending in the loop;
power supply cables connected respectively to the contact surfaces and provided with
connectors; and
an electrically insulating means for removably supporting the elements of the detector
in the bore of the shear pin,

wherein the means for supporting comprises a tube insertable in the bore of the shear
pin, the elements of the detector extending in the tube, wherein an insulating material is
injected in the tube.